

## Distribution of Houses by Predominant Materials of Roof and Wall and Level of Damage Risk

**Table No. : AR 03**

**State : ARUNACHAL PRADESH**

**EAST KAMENG**

Wall / Roof		Census Houses		Level of Risk under										
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %		
				V	IV	III	II	55 & 50	47	44 & 39	33			
				Area in %				Area in %						
		100						100						
<b>WALL</b>														
<b>A1 - Mud &amp; Unburnt Brick Wall</b>	Rural	278	1.5											
	Urban	493	2.7											
	<b>Total</b>	<b>771</b>	<b>4.2</b>	VH								<i>M</i>		
<b>A2 - Stone Wall not packed with mortar</b>	Rural	69	0.4											
	Urban	59	0.3											
	<b>Total</b>	<b>128</b>	<b>0.7</b>	VH								<i>L</i>		
<b>Total - Category - A</b>		<b>899</b>	<b>4.9</b>											
<b>B - Burnt Bricks Wall &amp; Stone wall packed with mortar</b>	Rural	330	1.8											
	Urban	520	2.9											
	<b>Total</b>	<b>850</b>	<b>4.7</b>	H								<i>L</i>		
<b>Total - Category - B</b>		<b>850</b>	<b>4.7</b>											
<b>C1 - Concrete Wall</b>	Rural	364	2.0											
	Urban	1,073	5.9											
	<b>Total</b>	<b>1,437</b>	<b>7.9</b>	M								<i>VL</i>		
<b>C2 - Wood wall</b>	Rural	987	5.4											
	Urban	375	2.1											
	<b>Total</b>	<b>1,362</b>	<b>7.5</b>	M								<i>M</i>		
<b>Total - Category - C</b>		<b>2,799</b>	<b>15.4</b>											
<b>X - Other Materials</b>	Rural	11,554	63.6											
	Urban	2,071	11.4											
	<b>Total</b>	<b>13,625</b>	<b>75.0</b>	M								<i>M</i>		
<b>Total - Category - X</b>		<b>13,625</b>	<b>75.0</b>											
<b>TOTAL HOUSES*</b>		<b>18,173</b>												

ROOF		Damage Risk as per that for the Wall supporting it											
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %	
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
		100						100					
<b>R1 - Light Weight Sloping Roof</b>	Rural	13,301	73.2										
	Urban	3,874	21.3										
	<b>Total</b>	<b>17,175</b>	<b>94.5</b>	M								<i>M</i>	
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	203	1.1										
	Urban	129	0.7										
	<b>Total</b>	<b>332</b>	<b>1.8</b>	M								<i>H</i>	
<b>R3 - Flat Roof</b>	Rural	78	0.4										
	Urban	588	3.2										
	<b>Total</b>	<b>666</b>	<b>3.6</b>										
<b>TOTAL HOUSES*</b>		<b>18,173</b>											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 454 mm

**Housing Category : Wall Types**

**Category - A** : Buildings in field-stone, rural structures, unburnt brick houses, clay houses

**Category - B** : Ordinary brick building; buildings of the large block & prefabricated type, half-timbered structures, building in natural hewn stone

**Category - C** : Reinforced building, well built wooden structures

**Category - X** : Other materials not covered in A,B,C. These are generally light.

**Notes** : 1. Flood prone area includes that protected area which may have more severe damage under failure of protection works. In some other areas the local damage may be severe under heavy rains and choked drainage.

2. Damage Risk for wall types is indicated assuming heavy flat roof in categories A, B and C (Reinforced Concrete) building

3. Source of Housing Data : Census of Housing, GOI, 2011

**Housing Category : Roof Type**

**Category - R1** - Light Weight (Grass, Thatch, Bamboo, Wood, Mud, Plastic, Polythene, GI Metal, Asbestos Sheets, Other Materials)

**Category - R2** - Heavy Weight (Tiles, Stone/Slate)

**Category - R3** - Flat Roof (Brick, Concrete)

EQ Zone V : Very High Damage Risk Zone (MSK > IX)

EQ Zone IV : High Damage Risk Zone (MSK VIII)

EQ Zone III : Moderate Damage Risk Zone (MSK VII)

EQ Zone II : Low Damage Risk Zone (MSK < VI)

**Level of Risk** : VH = Very High; H = High;

M = Moderate; L = Low; VL = Very Low

\* Total No.of Houses excluding Vacant/Locked Houses